



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

April 17, 2020

Edward Bockrath
Product Registration Manager
FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104

Subject: Registration Review Label Mitigation for Thifensulfuron- methyl
Product Name: HARMONY SG HERBICIDE (WITH TOTALSOL SOLUBLE
GRANULES)
EPA Registration Number: 279-9595
Application Date: 08/22/2018
Decision Number: 561681

Dear Mr. Bockrath:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Sulfonylurea (SU) Herbicides Interim Decision, and has concluded that your submission is acceptable. The agency also completed review of your amended label referred to above, submitted in connection with registration under FIFRA, as amended, and has determined the label is also acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions about this letter, please contact Srijana Shrestha by phone at 703-305-6471, or via email at Shrestha.srijana@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure



THIFENSULFURON METHYL	GROUP	2	HERBICIDE
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Soluble Granule

For Use on Soybeans, Field Corn, Cereals, Safflower and Burndown

Active Ingredient **By Weight**

Thifensulfuron-methyl
 Methyl 3-[[[(4-methoxy-6-methyl-1,3,5- triazin-2-yl) amino]carbonyl]amino]sulfonyl]-2 thiophenecarboxylate 50%

Other Ingredients 50%

TOTAL 100%

Contains 0.50 lb Thifensulfuron Methyl per pound EPA Est. No. _____

EPA Reg. No. 279-9595 **Nonrefillable Container** *OR* **Refillable Container**
 Net: _____ Net: _____

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact 1-800-331-3148 for emergency medical treatment information.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Caution! Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some of the materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical Resistant Gloves (including butyl rubber, natural rubber, neoprene rubber or nitrile rubber) ≥14 mls.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

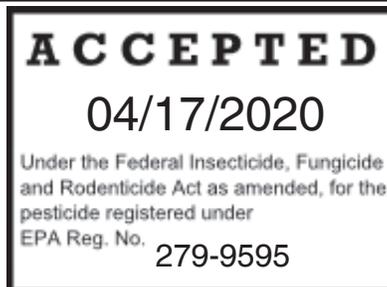
Engineering Control Statement: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Important: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

Sold By



FMC Corporation
 2929 Walnut Street
 Philadelphia, PA 19104



USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. Do not apply where/when conditions favor runoff.

Groundwater Advisory

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for days after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of thifensulfuron methyl from runoff water and sediment. Runoff of this product will be greatly reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

PESTICIDE HANDLING

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Assure accurate measurement of pesticides by all operation employees.
- Mix only enough product for the job at hand.
- Avoid over-filling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field/grove or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates/uses.
- Avoid storage of pesticides near well sites.
- When triple rinsing the pesticide container, be sure to add the rinsate to the spray mix.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply this product through any type of irrigation system. HARMONY® SG must be used only in accordance with instructions on this label or in separately published FMC instructions.

FMC will not be responsible for losses or damages resulting from the use of this product in any manner not specified by FMC.

HARMONY® SG is for use on soybeans, corn, cereals, pre-plant burndown, post-harvest burndown, and fallow in most states. Check with your state extension service or Department of Agriculture before use to be certain HARMONY® SG is registered in your state

Windblown Soil Particles Advisory

This product has the potential to move off-site due to wind erosion. Soils that are subject to wind erosion usually have a high silt and/or fine to very fine sand fractions and low organic matter content. Other factors which can affect the movement of windblown soil include the intensity and direction of prevailing winds, vegetative cover, site slope, rainfall, and drainage patterns. Avoid applying this product if prevailing local conditions may be expected to result in off-site movement.

Non-target Organism Advisory

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by minimizing spray drift. For further guidance and instructions on how to minimize spray drift, refer to the Spray Drift Management section of this label.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.
- Chemical -resistant gloves made of any waterproof material.
- Shoes plus socks.

PRODUCT INFORMATION

HARMONY® SG may be used for selective postemergence control of certain broadleaf weeds in soybeans, corn, cereals, safflower, pre-plant burndown, post-harvest burndown, and fallow. HARMONY® SG is a soluble granule to be mixed in water or other recommended carrier and applied as a uniform broadcast spray. It is noncorrosive, nonflammable, nonvolatile and does not freeze.

RESTRICTIONS

Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- Do not apply, drain or flush equipment on or near desirable trees or other plants or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Do not use on lawns, walks, driveways, tennis courts, or similar areas.
- Do not allow sprays to drift to desirable plants.
- Do not apply to wheat, barley, oats or triticale crops underseeded with another crop.

When using HARMONY® SG in tank mixes or sequential applications with other products containing thifensulfuron methyl, do not exceed the following limits:

Use Area	Active Ingredient	Application Timing	Maximum Product oz/A per Single Application	Maximum AI oz/A per Single Application	Maximum AI oz/A per Cropping Cycle & per Year	For All Applications Maximum AI oz/A per Year	Max # of Cropping Cycles	Maximum Number of Applications per Cropping Cycle & Year	Pre-Harvest Interval, Days
Fallow	Thifensulfuron Methyl	Spring, summer or fall. Apply HARMONY® SG in the spring through the fall when the majority of weeds have emerged and are actively growing.	0.90	0.45	0.75	0.75	1	2	NA
Pre-plant burndown	Thifensulfuron Methyl	Apply before planting or shortly after planting, but prior to emergence of wheat (including durum), barley, oats, triticale, soybeans and field corn. Apply HARMONY® SG as a burndown treatment up to the day of planting grain sorghum and rice. Apply HARMONY® SG as a burndown treatment at least 7 days prior to planting cotton. Apply HARMONY® SG as a burndown treatment before planting any other crop (such as sugarbeets or canola) at least 45 days prior to planting.	0.90	0.45	0.75	0.75	1	2* (* Do not make more than one pre-plant or at planting application of HARMONY® SG to soybeans, field corn, sorghum, cotton, or rice per year)	NA
Post-Harvest	Thifensulfuron Methyl	May be used as a burndown treatment to crop stubble when the majority of weeds have emerged and are actively growing.	0.90	0.45	0.75	0.75	1	2	NA
Wheat (including durum), barley, triticale	Thifensulfuron Methyl	After 2 leaf stage, but before flag leaf is visible	0.90	0.45	0.75	0.75	2	2	7(PGI); 7 (PHI) - forage; 30 (PHI) - hay; 45 (PHI) - grain
Oats (Winter)	Thifensulfuron Methyl	After 2 leaf stage, but before flag leaf is visible	0.60	0.30	0.30	0.75	1	1	7(PGI); 7 (PHI) - forage; 30 (PHI) - hay; 45 (PHI) - grain
Oat (Spring)	Thifensulfuron Methyl	After 3 leaf stage, but before jointing	0.60	0.30	0.30	0.75	1	1	7(PGI); 7 (PHI) - forage; 30 (PHI) - hay; 45 (PHI) - grain
Soybeans (non-STs varieties)	Thifensulfuron Methyl	Apply to soybeans any time after the first trifoliate has expanded fully. Apply no later than 60 days before harvest.	0.125	0.0625	0.0625	0.75	1	1	Apply no later than 60 days before harvest
STs Soybeans	Thifensulfuron Methyl	Apply to soybeans any time after the first trifoliate has expanded fully. Apply no later than 60 days before harvest.	0.50	0.25	0.25	0.75	2	4	Apply no later than 60 days before harvest
Field Corn	Thifensulfuron Methyl	Apply to 2-6 leaf field corn with 1-5 collars or up to 16 inches tall. Do not apply to field corn taller than 16 inches or 5 collars, whichever is more restrictive.	0.125	0.0625	0.0625	0.75	1	1	7(PGI); 7 (PHI) - forage; 30 (PHI) - hay; 45 (PHI) - grain. Do not graze or feed forage or grain from treated field corn to livestock within 30 days of application.
Safflower (Idaho, North Dakota, South Dakota, Nebraska, Montana (east of Route 87 or east of I-15), and Wyoming (east of I-25 or north of I-90))	Thifensulfuron Methyl	Selective postemergence control of certain broadleaf weeds. Apply no later than 81 days prior to harvesting. Sequential treatments of HARMONY® SG may be made provided the total amount of HARMONY® SG applied to safflower does not exceed 0.6 oz per acre per crop season and the last application is made no later than 81 days prior to harvest.	0.60	0.30	0.30	0.75	2	2	Apply no later than 81 days prior to harvesting

PRECAUTIONS

Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- Take all necessary precautions to avoid all direct or indirect contact (such as spray drift) with non-target plants or areas.

Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than wheat, barley, oats, triticale, corn or soybeans.

For ground applications applied when dry, dusty field conditions exist, control of weeds in wheel track areas may be reduced.

Soybeans, corn, safflower, and cereal varieties may differ in their response to various herbicides. FMC recommends that you first consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use of HARMONY® SG to a small area.

HARMONY® SG should not be applied to crops that are stressed by severe weather conditions, drought (including low levels of subsoil moisture), low fertility, water-saturated soil, disease, or insect damage, as crop injury may result. Risk of injury is greatest to cereals when the crop is in the 2 to 5- leaf stage. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.

For cereals under certain conditions such as heavy rainfall, prolonged cold weather (daily high temperature less than 50 Deg. F.), or wide fluctuations in day/night temperatures prior to or soon after HARMONY® SG application, temporary discoloration and/or crop injury may occur. To reduce the potential of crop injury, tank mix HARMONY® SG with 2,4-D (ester formulations perform best— see the "TANK MIXTURES IN CEREALS" section of this label) and apply after the crop is in the tillering stage of growth.

BIOLOGICAL ACTIVITY AND ENVIRONMENTAL CONDITIONS

Best results are obtained when HARMONY® SG is applied to young, actively growing weeds. The use rate will depend on weed spectrum and size of weed at time of application. The degree of control and duration of effect are dependent on rate used, sensitivity and size of target weed and environmental conditions at the time of and following application.

HARMONY® SG stops growth of susceptible weeds rapidly. However, typical symptoms of dying weeds (discoloration) may not be noticeable for 1-3 weeks after application (2-5 weeks for wild garlic) depending on the environmental conditions and weed susceptibility. Warm, moist conditions following treatment promote the activity of HARMONY® SG, while cold, dry conditions delay the activity. Weeds hardened-off by cold weather or drought stress will be less susceptible.

A vigorous growing crop will aid weed control by shading and providing competition for weeds. However, a dense crop canopy at time of application can intercept spray and result in reduced weed control. Weeds may not be adequately controlled in areas of thin crop stand or seeding skips.

Applications made to weeds that are in the cotyledon stage, larger than the size indicated, or to weeds under stress may result in unsatisfactory control.

HARMONY® SG may injure crops that are stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices. In addition, different varieties of the crop may have differing levels of sensitivity to treatment with HARMONY® SG under otherwise normal conditions. Treatment of sensitive crop varieties may injure crops.

Weed control may be reduced if rainfall or snowfall occurs soon after application. Several hours of dry weather are needed to allow HARMONY® SG to be sufficiently absorbed by weed foliage.

To reduce the potential of crop injury in cereals, tank mix HARMONY® SG with 2,4-D and apply after the crop is in the tillering stage of growth.

WEED RESISTANCE MANAGEMENT

HARMONY® SG, which contains the active ingredient Thifensulfuron methyl, is a group 2 herbicide based on the mode of action classification system of the Weed Science Society of America. Proactively implementing diversified

weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different sites of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance. The continued effectiveness of this product depends on the successful implementation of a weed resistance management program.

To aid in the prevention of developing weeds resistant to this product, users should:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Start with a clean field, using either a burndown herbicide application or tillage.
- Control weeds early when they are relatively small (less than 4 inches).
- Apply full rates of HARMONY® SG for the most difficult to control weed in the field at the specified time (correct weed size) to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in control of weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Report any incidence of non-performance of this product against a particular weed to your FMC representative, local retailer, or county extension agent.
- Contact your FMC representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective sites of actions for each target weed.
- If resistance is suspected, treat weed escapes with an herbicide having a site of action other than Group 2 and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Suspected herbicide-resistant weeds may be identified by these indicators:
 - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
 - A spreading patch of non-controlled plants of a particular weed species; and
 - Surviving plants mixed with controlled individuals of the same species.

Additionally, users should follow as many of the following herbicide resistance management practices as is practical:

- Use a broad spectrum soil-applied herbicide with other sites of action as a foundation in a weed control program.
- Utilize sequential applications of herbicides with alternative sites of action.
- Rotate the use of this product with non-Group 2 herbicides.
- **Note:** For Mixtures of herbicide products, each listed weed may not be controlled by multiple mechanisms of action.
- Avoid making more than two applications of HARMONY® SG and any other Group 2 herbicides within a single growing season unless mixed with an herbicide with a different site of action with an overlapping spectrum for the difficult-to control weeds.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields, during and after harvest to reduce weed seed production.

INTEGRATED PEST MANAGEMENT

FMC recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/ crop systems in your area.

SOYBEANS

APPLICATION TIMING

HARMONY® SG may be applied to soybeans any time after the first trifoliolate has expanded fully. Early-season soybean injury may result from tank-mix applications with other registered herbicides. Injury may manifest itself as stunting (seen as a reduction in leaf size or internode length), yellowing leaves and/or red veins, and necrosis in the leaves and petioles. The potential for soybean injury is most pronounced with applications made during hot, humid conditions, under widely fluctuating weather or temperature conditions, or with applications to soybeans under stress.

Late applications (after the bloom stage) may result in crop injury in non-STS soybeans. Apply no later than 60 days before harvest.

USE RATES IN SOYBEANS

Make a single application of HARMONY® SG at a rate of 0.125 (1/8) ounce per acre for selective postemergence broadleaf weed control on conventional soybean varieties. HARMONY® SG at 1/8 to 1/2 ounce per acre is recommended for use on soybeans designated "STS" (alone or stacked trait). Severe injury or death of soybeans will result if any soybeans not designated as "STS" are treated with more than 1/8 ounce of HARMONY® SG. Multiple applications of HARMONY® SG may be applied to "STS" soybeans provided no more than a total of 1/2 ounce is applied per season.

SPRAY ADDITIVES

Applications of HARMONY® SG in soybeans must include a nonionic surfactant or crop oil concentrate, and an ammonium nitrogen fertilizer. See "SPRAY ADJUVANTS".

WEEDS CONTROLLED

When applied to soybeans as directed, HARMONY® SG will control the following weeds:

Weeds Controlled	Maximum Size (inches)
Annual Smartweeds	6
Lambsquarters	4
Pigweed	
Rough (red root)†	12
Palmer pigweed†	4
Other species	8
Velvetleaf	6
Wild Mustard†	up to 4" in dia.

Partial Control*	Maximum Size (inches)
Cocklebur†	6
Jimsonweed	4
Wild Sunflower	6

*Partial Control: A visual reduction of weed population as well as a significant loss of vigor for individual weed plants.

† Naturally occurring resistant biotypes are known to occur.

TANK MIXTURES IN SOYBEANS

HARMONY® SG may be tank mixed with full or reduced rates of other products registered for use in soybeans. However, FMC will not warrant crop safety or weed control of HARMONY® SG tank mixtures with any other pesticide or spray adjuvant except as specified in this label, or other FMC supplemental labeling or technical bulletins.

For tank mixtures with HARMONY® SG, always read and follow all use directions, restrictions, and pre-cautions on the EPA approved labels. When tank mixing, the most restrictive labeling applies.

Do not tank mix HARMONY® SG with organophosphate insecticides, or apply HARMONY® SG within 14 days before or after an application of an organophosphate insecticide, as severe crop injury may occur.

With Postemergence Grass Herbicides

Include a nonionic surfactant with the tank mix of HARMONY® SG and post grass herbicides such as "ASSURE II" herbicide. With post grass herbicides, surfactant rate (concentration) should be 1-2 pints per 100 gallons of spray solution (0.125%-0.25% v/v concentration). Use of a higher rate of nonionic surfactant, particularly under hot, humid conditions, may result in temporary crop injury. Do not use crop oil concentrate when tank mixing HARMONY® SG with postemergence grass herbicides unless specified on other FMC supplemental labeling. Do not tank mix with "Poast" Plus unless specified on other FMC labeling. Tank Mixes with "Select Max" may result in unacceptable injury.

With Glyphosate

HARMONY® SG may be tank mixed with glyphosate for improved control of certain broadleaf weeds in STS X Roundup Ready stacked soybeans and Roundup Ready soybeans. In addition to the weeds listed above, this tank mix will provide improved control of volunteer Roundup Ready canola, ALS-sensitive horseweed and kochia, and wild buckwheat.

When tank mixing HARMONY® SG with glyphosate, it is recommended to add ammonium sulfate (AMS) at 4.25 - 17 lb per 100 gal of spray mixture. See the glyphosate manufacturer's label for specific ammonium nitrogen recommendations. When velvetleaf is present, ammonium sulfate is required at a minimum rate of 2 lb per acre.

The addition of surfactant at 0.125 - 0.25% v/v (1-2 pt per 100 gal spray mixture) to some HARMONY® SG plus glyphosate tank mixes will improve weed control when glyphosate products are used that do not contain built-in adjuvant systems. Glyphosate products differ in their adjuvant contents. Glyphosate products such as Glyphomax or Roundup Original allow for addition of surfactants. See the manufacturer's specific surfactant recommendations.

With "CLASSIC" Herbicide

HARMONY® SG may be tank mixed with "CLASSIC" for improved control of certain broadleaf weeds in soybeans. In addition to the weeds listed above, this tank mix will provide improved control of cocklebur, common ragweed, jimsonweed, marehail, and yellow nutsedge. See "CLASSIC" label for additional weeds controlled.

Apply a tank mix of 0.5 ounce of "CLASSIC" plus 0.125 (1/8) ounce of HARMONY® SG per acre. Application must include a nonionic surfactant (NIS) at 0.125 - 0.25% v/v (1-2 pt per 100 gal spray solution). Use of the higher rate of NIS, particularly under hot, humid conditions, may increase temporary crop injury. DO NOT use "Dash", crop oil concentrate, or methylated seed oils as adjuvants with this tank mix. The use of ammonium nitrogen fertilizer is required for control of velvetleaf and ragweeds. See "SPRAY ADJUVANTS". A postemergence grass herbicide, such as "ASSURE II", may also be tank mixed with HARMONY® SG plus "CLASSIC".

With "Pursuit" Herbicide (in the states of IL, IN, IA, MI, MN, ND, OH, PA, SD, and WI)

HARMONY® SG may be tank mixed with "Pursuit" herbicide for improved control of nightshade (less than 2" tall) in soybeans. Apply after the first trifoliolate of the soybeans has fully expanded and plants are actively growing but before soybeans begin to flower.

Apply a tank mix of 0.125 (1/8) ounce of HARMONY® SG plus 2 fluid ounces of "Pursuit" per acre. "CLASSIC" may also be added to this tank mix at 1/4 to 1/3 ounce per acre. Application must include a nonionic surfactant (NIS) at 0.125% v/v (1 pt per 100 gal spray solution). Under dry, cool (generally 70° F or less) conditions the rate of NIS may be increased to 2 pints per 100 gallons of solution. DO NOT use "Dash", crop oil concentrate, or methylated seed oils as adjuvants with this tank mix. The use of ammonium nitrogen fertilizer is required. See "SPRAY ADJUVANTS".

This tank mix combination may shorten stem internodal length and cause temporary crop injury. Crop response may be increased when applications are made to soybeans that are under stress. Soybeans will recover quickly under normal growing conditions. Sequential applications of HARMONY® SG following postemergence "Pursuit" applications are not recommended due to the potential for reduced weed control and increased crop injury.

HARMONY® SG plus "Pursuit" may be tank mixed with ASSURE® II to control volunteer corn and shattercane. "Pursuit" may reduce the activity of "ASSURE II" on other grasses. For broad-spectrum grass control, apply "ASSURE II" 1 day before or 7 days after "Pursuit" treatments.

SEQUENTIAL APPLICATIONS IN SOYBEANS

Before making applications of HARMONY® SG to soybeans previously treated with other herbicides, ensure that the soybeans are free from stress (herbicide or environmental) and actively growing.

CULTIVATION

A timely cultivation may be necessary to control suppressed weeds, weeds that were beyond the maximum size at the time of application, or weeds that emerge after an application of HARMONY® SG. Do not cultivate within 7 days before or after the application. Cultivation may decrease weed control by pruning roots and placing the weed under stress. The best time to cultivate is approximately 14 days after application.

FIELD CORN

Apply HARMONY® SG to field corn hybrids with a Relative Maturity (RM) of 88 days or more, including "food grade" (yellow dent, hard endosperm), waxy and high-oil corn. Not all field corn hybrids of less than 88 days RM, not all white corn hybrids or Hi-Lysine hybrids have been tested for crop safety, nor does FMC have access to all seed company data. Consequently, injury arising from the use of HARMONY® SG on these types of corn is the responsibility of the user. Consult with your seed supplier before applying HARMONY® SG to any of these corn types.

HARMONY® SG may interact with certain insecticides previously applied to the crop. Crop response varies with field corn type, insecticide used, insecticide application method, and soil type.

- HARMONY® SG may be applied to corn previously treated with "Fortress", "Aztec", "Force" or nonorganophosphate (OP) soil insecticides regardless of soil type.
- Applications of HARMONY® SG to corn previously treated with "Lorsban", or other organophosphate insecticides not listed above or below, may result in temporary crop injury.
- Applications of HARMONY® SG to corn previously treated with "Counter 20CR", "Lorsban" or "Thimet" may cause unacceptable crop injury, especially on soils of less than 4% organic matter.
- DO NOT apply HARMONY® SG to corn previously treated with Counter 15G.

Do not apply to sweet corn, popcorn or field corn grown for seed. Do not apply this product through any type of irrigation systems.

APPLICATION TIMING

HARMONY® SG may be applied to 2-6 leaf field corn with 1-5 collars or up to 16 inches tall. Do not apply to field corn taller than 16 inches or 5 collars, whichever is more restrictive.

USE RATES IN FIELD CORN

Make a single application of HARMONY® SG at a rate of 0.125 (1/8) ounce per acre for selective postemergence broadleaf weed control on field corn hybrids.

Do not make more than one application per season.

SPRAY ADDITIVES

Applications of HARMONY® SG in field corn must include either nonionic surfactant at 0.25% v/v (1 qt/100 gal) or crop oil concentrate at 1% v/v (1 gal/100 gal) plus either ammonium nitrogen solution such as 28% UAN (2-4 qt/acre) of ammonium sulfate (2-4 lb/acre). See "*SPRAY ADJUVANTS*".

WEEDS CONTROLLED

Apply to weeds whose first true leaves are expanded but before weeds exceed the sizes listed below. When applied as directed, HARMONY® SG will control the following weeds:

Weeds Controlled	Maximum Size (inches)
Velvetleaf	6
Pigweed species†	12
Lambsquarters	4
Annual smartweeds	6
Wild Mustard†	up to 4" in dia.

† Naturally occurring resistant biotypes are known to occur.

TANK MIXTURES IN FIELD CORN

HARMONY® SG may be applied as a tank mixture with labeled rates of atrazine. HARMONY® SG may be applied as a tank mixture with labeled rates of glyphosate for use only on "Roundup Ready" field corn. Do not tank mix with other corn herbicides unless specified on HARMONY® SG labels or technical bulletins.

When tank mixing HARMONY® SG with glyphosate, it is recommended to add ammonium sulfate (AMS) at 4.25 - 17 lb per 100 gal of spray mixture. See the glyphosate manufacturer's label for specific ammonium nitrogen recommendations. When velvetleaf is present, ammonium sulfate is required at a minimum rate of 2 lb per acre.

The addition of surfactant at 0.125 - 0.25% v/v (1-2 pt per 100 gal spray mixture) to some HARMONY® SG plus glyphosate tank mixes will improve weed control when glyphosate products are used that do not contain built-in adjuvant systems. Glyphosate products differ in their adjuvant contents.

Glyphosate products such as Glyphomax or Roundup Original allow for addition of surfactants. See the manufacturer's specific surfactant recommendations.

CEREALS

APPLICATION TIMING

Wheat (Including Durum), Barley, Triticale and Winter Oats

Make applications after the crop is in the 2-leaf stage, but before the flag leaf is visible.

Spring Oats

Make applications after the crop is in the 3-leaf stage, but before jointing. Do not use on "Ogle", "Porter" or "Premier" varieties since crop injury can occur.

USE RATES IN CEREALS

If the predominant weeds in the field are those listed under "WEEDS PARTIALLY CONTROLLED", include a tank mix partner (refer to "*TANK MIXTURES IN CEREALS*").

Wheat, Barley and Triticale

Apply 0.75 ounce HARMONY® SG per acre to wheat (including durum), barley or triticale for postemergence broadleaf weed control.

Use 0.9 ounce HARMONY® SG per acre when weed infestation is heavy and predominately consists of those weeds listed under partial control, or when application timing and environmental conditions are marginal (refer to the "*APPLICATION TIMING*" and "*PRODUCT INFORMATION*" sections of this label).

Use 0.45 ounce HARMONY® SG per acre when weed infestation is light and predominately consists of those weeds listed under weeds controlled, and when optimum application conditions occur.

Sequential treatments of HARMONY® SG may be made provided the total amount of HARMONY® SG applied to the crop does not exceed 1.5 ounce per acre.

Oats (Spring and Winter)

Apply 0.45 to 0.6 ounce HARMONY® SG per acre to oats (Spring and Winter) for postemergence broadleaf weed control.

Do not make more than one application of HARMONY® SG per crop season on oats.

SPRAY ADDITIVES

Applications of HARMONY® SG in cereals must include a spray adjuvant. See “*SPRAY ADJUVANTS*”.

TANK MIXTURES IN CEREALS

HARMONY® SG may be tank mixed with full or reduced rates of other products registered for use in cereals.

Read and follow all manufacturers’ label instructions for any companion herbicides, fungicides, and/or insecticides. If those instructions conflict with this label, do not tank mix that product with HARMONY® SG. Read and follow all label instructions on timing, precautions, and warnings for any companion products before using these tank mixtures. Follow the most restrictive labeling.

With 2,4-D or MCP

HARMONY® SG may be tank mixed with the amine and ester formulations of 2,4-D and MCP herbicides for use on wheat, barley, oats, or fallow.

For best results, add the ester formulations of 2,4-D or MCP herbicides to the tank at 1/4 to 3/8 lb active ingredient (such as 1/2-3/4 pint of a 4 lb/gal product, 1/3-1/2 pint of a 6 lb/gal product). Nonionic surfactant may be added to the mixture at 1/2 to 1 quart per 100 gal of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury, especially at the higher phenoxy rates. Higher rates of 2,4-D or MCP may be used, but do not exceed the highest rate allowed by those respective labels.

For best results in the Red River Valley and adjacent areas of North Dakota and Minnesota, add the ester formulations of 2,4-D or MCP herbicides to the tank at 3/8 lb active ingredient (such as 3/4 pint of a 4 lb/gal product, 1/2 pint of a 6 lb/gal product). No additional surfactant is needed with this mixture.

With dicamba (such as "Banvel"/"Clarity")

HARMONY® SG may be tank mixed with 1/16 to 1/8 lb active ingredient dicamba (such as 2-4 fluid ounce "Banvel". Use higher rates when weed infestation is heavy. Nonionic surfactant may be added to the mixture at 1/2 to 1 quart per 100 gal of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury. Tank mixes of HARMONY® SG plus dicamba may result in reduced control of some broadleaf weeds.

With 2,4-D or MCP and dicamba

HARMONY® SG may be applied in a 3-way tank mix with formulations of dicamba and 2,4-D or MCP. Make application of HARMONY® SG plus 1/16 to 1/8 lb active ingredient dicamba plus 1/4-3/8 lb active ingredient 2,4-D or MCP ester or amine per acre. Use higher rates when weed infestation is heavy. Nonionic surfactant may be added to the mixture at 1/2 to 1 quart per 100 gal of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury.

Apply to winter wheat and winter oats after the crop is tillering and prior to jointing (first node). In Spring Wheat (including Durum) and Spring Oats, apply after the crop is tillering and before it exceeds the 5-leaf stage. In Spring Barley, apply after the crop is tillering and before it exceeds the 4-leaf stage.

With Bromoxynil (such as "Buctril", "Bronate" or "Bronate Advanced")

HARMONY® SG may be tank mixed with bromoxynil containing herbicides registered for use on wheat, barley or triticale. For best results, add bromoxynil containing herbicides to the tank at 3 to 6 oz active ingredient per acre (such as "Bronate" at 3/4 - 1 1/2 pt per acre). Tank mixes of HARMONY® SG plus bromoxynil may result in reduced control of Canada thistle.

With fluroxypyr (such as "Starane" brands)

HARMONY® SG may be tank mixed with fluroxypyr containing herbicides for improved control of Kochia (2-4" tall) and other broadleaf weeds at 1 to 2 ounces active ingredient per acre (such as 1/3 to 2/3 pints per acre of "Starane"). 2,4-D and MCP herbicides may be tank mixed with HARMONY® SG plus fluroxypyr.

With Other Broadleaf Control Products

For improved control of broadleaf weeds, HARMONY® SG can be tank mixed with other herbicides registered on cereals such as EXPRESS® SG, ALLY® XP, "Widematch", Aim® , "Stinger", or "Curtail".

With "Axial" brands

For control of wild oats and other grasses, HARMONY® SG can be tankmixed with "Axial" brand herbicides.

With "Discover" NG

HARMONY® SG can be tank mixed with "Discover" NG herbicide for improved control of weeds in spring wheat.

With "Everest"

HARMONY® SG can be tank mixed with "Everest" herbicide for improved control of weeds in spring wheat.

With "Hoelon"

A tankmix of "Hoelon" 3EC herbicide + HARMONY® SG can be applied for annual ryegrass (in the Pacific Northwest only), wild oats and broadleaf weed control in winter and spring wheat, and spring barley. The "Hoelon" 3EC rate should be 2 2/3 pints per acre with up to 0.75 ounce per acre HARMONY® SG in spring and winter wheat.

A three-way tankmix of "Hoelon" 3EC + "Buctril" herbicide + HARMONY® SG can be applied for annual ryegrass (in the Pacific Northwest only), wild oats and broadleaf weed control in winter and spring wheat, and spring barley. The "Hoelon" 3EC rate should be 2 2/3 pints per acre with up to 0.75 ounce per acre HARMONY® SG in winter wheat (up to 0.6 ounce per acre in spring wheat and spring barley). "Buctril" should be used at 1 pint per acre.

This tank mixture should only be used under good soil moisture conditions when wild oats are in the 1 to 4 leaf stage. Reduced control of foxtail is likely when tank mixing "Hoelon" with HARMONY® SG. When foxtail is the major grassy weed in the field, DO NOT tank mix "Hoelon" 3EC + HARMONY® SG - use sequential treatments.

With Other Grass Control Products

For improved control of grass weeds, HARMONY® SG can be tankmixed with other grass control herbicides registered on cereals such as "Maverick", "Achieve", or "Puma". Antagonism generally does not occur. However, FMC recommends that you first consult your state experiment station, university, or extension agent, Agricultural dealer, or FMC representative as to the potential for antagonism before using the mixture. If no information is available, limit the initial use of HARMONY® SG and the grass product to a small area.

With Fungicides

HARMONY® SG may be tank mixed or used sequentially with fungicides registered for use on cereal grains.

With Insecticides

HARMONY® SG may be tank mixed or used sequentially with insecticides registered for use on cereal grains.

However, under certain conditions (drought stress, cold weather, or if the crop is in the 2-4 leaf stage), tank mixes or sequential applications of HARMONY® SG with organophosphate insecticides (such as "Lorsban") may produce temporary crop yellowing or, in severe cases, crop injury. The potential for crop injury is greatest when wide fluctuations in day/night temperatures occur just prior to or soon after application. Test these mixtures in a small area before treating large areas.

Do not apply HARMONY® SG within 60 days of crop emergence where an organophosphate insecticide has been applied as an in-furrow treatment because crop injury may result.

Do not use HARMONY® SG (with TotalSol® soluble granules) plus "Malathion" because crop injury will result.

With Liquid Nitrogen Solution Fertilizer

Liquid nitrogen fertilizer solutions may be used as a carrier in place of water. Run a tank mix compatibility test before mixing HARMONY® SG in fertilizer solution.

HARMONY® SG must first be dissolved with water and then added to liquid nitrogen solutions (e.g., 28-0-0, 32-0-0). Ensure that the agitator is running while the HARMONY® SG is added. Use of this mixture may result in temporary crop yellowing and stunting.

If using low rates of liquid nitrogen fertilizer in the spray solution (less than 50% of the spray solution volume), the addition of surfactant is necessary. Add surfactant at 1/2 pint - 1 quart per 100 gal of spray solution (0.06 - 0.25% v/v) based on local guidance.

When using high rates of liquid nitrogen fertilizer in the spray solution, adding surfactant increases the risk of crop injury. Consult your agricultural dealer, consultant, field advisor, or FMC representative for a specific recommendation before adding an adjuvant to these tank mixtures.

If 2,4-D or MCP is included with HARMONY® SG and the fertilizer mixture, ester formulations tend to be more compatible (See manufacturer's label). Additional surfactant may not be needed when using HARMONY® SG in tank mix with 2,4-D ester or MCP ester and liquid nitrogen fertilizer solutions. Consult your agricultural dealer, consultant, field advisor, or FMC representative for a specific recommendation before adding an adjuvant to these tank mixtures.

Note: In certain areas east of the Mississippi river unacceptable crop response may occur with use of straight or dilute nitrogen fertilizer carrier solutions where cold temperatures or widely fluctuating day/night temperatures exist. In these areas consult your agricultural dealer, consultant, field advisor, or FMC representative for a specific recommendation before using nitrogen fertilizer carrier solutions.

Liquid nitrogen fertilizer solutions that contain sulfur can increase crop response.

Do not use low rates of liquid fertilizer as a substitute for a surfactant.

Do not use with liquid fertilizer solutions with a pH less than 3.0.

SAFFLOWER

HARMONY® SG may be used on safflower for selective postemergence control of certain broadleaf weeds in North Dakota, South Dakota, Nebraska, Montana (east of Route 87 or east of I-15), and Wyoming (east of I-25 or north of I-90). The degree and duration of control may depend on the weed spectrum and infestation intensity, the weed size at application and/or the environmental conditions at and following treatment.

USE RATES

For best results, apply 0.45 to 0.6 oz of HARMONY® SG per acre no later than 81 days prior to harvesting. Sequential treatments of HARMONY® SG may be made provided the total amount of HARMONY® SG applied to safflower does not exceed 0.6 oz per acre per crop season and the last application is made no later than 81 days prior to harvest.

SPRAY ADDITIVES

Applications of HARMONY® SG in safflower must include either nonionic surfactant at 0.25% v/v (1 qt/100 gal) or crop oil concentrate at 1% v/v (1 gal/100 gal) plus either ammonium nitrogen solution such as 28% UAN (2-4 qt/acre) or ammonium sulfate (2-4 lb/acre).

BURNDOWN - PRE-PLANT, POST HARVEST, AND FALLOW

APPLICATION TIMING

Pre-Plant Burndown

For burndown of emerged weeds, broadcast applications of HARMONY® SG may be applied before planting or shortly after planting, but prior to emergence of wheat (including durum), barley, oats, triticale, soybeans and field corn.

Apply HARMONY® SG as a burndown treatment up to the day of planting grain sorghum and rice. Apply HARMONY® SG as a burndown treatment at least 7 days prior to planting cotton. Apply HARMONY® SG as a burndown treatment before planting any other crop (such as sugarbeets or canola) at least 45 days prior to planting.

Cotton Precaution: Seedling disease, nematodes, cold weather, deep planting (more than 2"), excessive moisture, high salt concentration, and/or drought may weaken cotton seedlings and increase the possibility of crop injury. Cotton resumes normal growth once favorable growing conditions return.

Do not make more than one pre-plant or at planting application of HARMONY® SG to soybeans, field corn, sorghum, cotton, or

rice per growing season.

Post Harvest

HARMONY® SG may be used as a burndown treatment to crop stubble when the majority of weeds have emerged and are actively growing. (See the "CROP ROTATION" section of this label for additional information).

Fallow

Apply HARMONY® SG in the spring through the fall when the majority of weeds have emerged and are actively growing. (See the "CROP ROTATION" section of this label for additional information).

USE RATES IN BURNDOWN

Pre-Plant Burndown

Apply HARMONY® SG at 0.45 to 0.9 ounce per acre for control or partial control of the weeds listed below. Use 0.9 ounce per acre rate when weed infestation is heavy and predominantly consists of those weeds listed under the "WEEDS PARTIALLY CONTROLLED" section of this label, or when application timing and environmental conditions are marginal. In fields to be planted to cotton, apply HARMONY® SG at 0.3 to 0.5 ounce per acre.

Sequential burndown treatments of HARMONY® SG may also be made (such as 0.9 ounce per acre in the fall followed by 0.6 ounce per acre spring preplant) provided the total amount of HARMONY® SG applied during the fallow/preplant period does not exceed 1.5 ounce per acre.

HARMONY® SG should be applied in combination with other suitable registered pre-plant burndown herbicides (See the "TANK MIXTURES IN BURNDOWN" section of this label for additional information.)

Post Harvest

Apply HARMONY® SG at 0.45 to 0.9 ounce per acre to crop stubble after harvest. Use the 0.9 ounce per acre rate when weed infestation is heavy and predominantly consists of those weeds listed under the "WEEDS PARTIALLY CONTROLLED" section of this label or when application timing and environmental conditions are marginal. (See the "APPLICATION TIMING" section of this label for restriction on planting intervals). HARMONY® SG should be applied in combination with other suitable registered burndown herbicides (See the "TANK MIXTURES IN BURNDOWN" section of this label for additional information).

Sequential treatments of HARMONY® SG may also be made provided the total amount of HARMONY® SG applied during one fallow/pre plant cropland season does not exceed 1.5 ounce per acre.

Fallow

Apply HARMONY® SG at 0.45 to 0.9 ounce per acre to fallow for control or partial control of the weeds listed below. Sequential treatments of HARMONY® SG may be made provided the total amount of HARMONY® SG applied during the fallow period does not exceed 1.5 ounce per acre.

SPRAY ADDITIVES

Applications of HARMONY® SG in burndown must include a spray adjuvant. See "SPRAY ADJUVANTS".

TANK MIXTURES IN BURNDOWN

HARMONY® SG may be tank mixed with full or reduced rates of other products registered for use as a pre-plant burndown treatment, as a post harvest treatment to crop stubble, and/or as a fallow treatment. Read and follow all manufacturers' label instructions for any companion herbicides, fungicides, and/or insecticides. If those instructions conflict with this label, do not tank mix that product with HARMONY® SG. Read and follow all label instructions on timing, precautions, and warnings for any companion products before using these tank mixtures. Follow the most restrictive labeling.

With 2,4-D and glyphosate

HARMONY® SG may be tank mixed with 2,4-D and glyphosate herbicides for control of marehail in burndown applications. For best results, add the ester formulations of 2,4-D to the tank at 1/4 to 3/4 lb active ingredient (such as 0.5 to 1.5 pints of a 4 lb/gal product) and add glyphosate at 1/2 lb active ingredient (such as 1 pint of a 4 lb/gal product). NIS or COC may be added to the mixture (see "SPRAY ADJUVANTS"). Higher rates of 2,4-D or glyphosate may be used, but do not exceed the highest rate allowed by those respective labels.

CEREALS AND BURNDOWN

WEEDS CONTROLLED

Annual knawel	Field pennycress	Scentless
Annual sowthistle	Flixweed	chamomile/mayweed
Black mustard	Green smartweed	Shepherd's-purse
Bushy wallflower/ Treacle mustard	Kochia *†	Smallflower buttercup
Carolina geranium	Ladysthumb	Stinking mayweed/Dogfennel
Coast fiddleneck	London rocket	Swinecress
Common buckwheat	Mallow (little)	Tarweed fiddleneck
Common chickweed*	Marshelder†	Tumble/Jim Hill mustard
Common groundsel	Miners lettuce	Volunteer lentils
Common lambsquarters	Mouseear chickweed	Volunteer peas
Corn chamomile	Pennsylvania smartweed	Volunteer sunflower*
Corn spurry	Prostrate knotweed	Wild buckwheat*
Cress (mouse-ear)	Redmaids	Wild chamomile
Curly dock	Redroot pigweed†	Wild garlic*
False chamomile	Russian thistle*†	Wild mustard†

WEEDS PARTIALLY CONTROLLED**

Common cocklebur†	Deadnettle (purple, red)	Prickly lettuce*†
Common sunflower*†	Henbit	Tansymustard*
Cutleaf eveningprimrose	Mallow (common)	Wild radish*

* See "SPECIFIC WEED INSTRUCTIONS" for more information.

**Partial control: A visual reduction of weed population as well as a significant loss of vigor for individual weed plants. For better results, use 0.75 or 0.9 ounce HARMONY® SG per acre and include a tank mix partner such as 2,4-D, MCP, bromoxynil (such as "Buctril", "Bison", "Bronate" or "Bronate Advanced") , or dicamba (such as "Banvel"/ "Clarity"), refer to the "TANK MIXTURES IN CEREALS" section of this label.

† Naturally occurring resistant biotypes are known to occur.

SPECIFIC WEED INSTRUCTIONS

Common chickweed and wild buckwheat: For best results, apply a minimum of 0.75 ounce HARMONY® SG per acre plus surfactant when all or the majority of weeds have germinated and are past the cotyledon stage. Weeds should be less than 3 inches tall or across at the time of HARMONY® SG application.

Kochia: Naturally occurring biotypes resistant to HARMONY® SG are known to occur. For best results, use HARMONY® SG in a tank mix with "Starane", "Starane" + "Salvo", "Starane" + "Sword", dicamba (such as "Banvel"/ "Clarity") and 2,4-D or MCP (ester or amine), or bromoxynil containing products (such as "Buctril", "Bison", "Bronate" or "Bronate Advanced").

HARMONY® SG should be applied in the spring when kochia are less than 2" tall and are actively growing (refer to the "TANK MIXTURES IN CEREALS" section of this label for additional details on rates and restrictions).

Russian thistle, Prickly lettuce: Naturally occurring biotypes resistant to HARMONY® SG of these weeds are known to occur. For best results, use HARMONY® SG in a tank mix with dicamba (such as "Banvel"/ "Clarity") and 2,4-D or MCP (ester or amine), or bromoxynil containing products (such as "Buctril", "Bison", "Bronate" or "Bronate Advanced").

HARMONY® SG should be applied in the spring when Russian thistle, and prickly lettuce are less than 2" tall or 2" across and are actively growing (refer to the "TANK MIXTURES IN CEREALS" section of this label for additional details on rates and restrictions).

Wild garlic: For best results, apply 0.75 to 0.9 ounce HARMONY® SG per acre plus surfactant when wild garlic plants are less than 12 inches tall with 2 to 4 inches of new growth. For severe infestations, use the 0.9 ounce per acre rate of HARMONY® SG. Control may be reduced when plants are hardened-off by cold weather and/or drought stress. Control is enhanced when applications are made during warm temperatures to actively growing wild garlic plants. Typical symptoms of dying wild garlic plants (discoloration and collapse) may not be noticeable for 2-5 weeks.

Thorough coverage of all garlic plants is essential. Tank mixes of HARMONY® SG plus metribuzin may result in reduced control of wild garlic.

Wild radish: For best results, apply 0.75 to 0.9 ounce HARMONY® SG per acre plus surfactant either in the fall or spring to wild radish rosettes less than 6 inches in diameter. Applications made later than 30 days after weed emergence will result in partial control. Fall applications should be made prior to hardening-off of plants.

SU/IMI Tolerant Volunteer Sunflowers: Control may not be adequate because varieties resistant to SU and IMI products (like EXPRESS®, "Beyond", "Pursuit", "Raptor") are under development. For best results, use HARMONY® SG in a tank mix with "Starane", "Starane" + "Salvo", "Starane" + "Sword", dicamba (such as "Banvel"/ "Clarity") and 2,4-D or MCP (ester or amine), or bromoxynil containing products (such as "Buctril", "Bison", "Bronate" or "Bronate Advanced").

GRAZING

Cereals and Soybeans

Allow at least 7 days between application and grazing of treated forage. In addition, allow at least 7 days between application and feeding of forage (green chop) from treated areas to livestock. Allow at least 30 days between application and feeding of dried hay from treated areas to livestock. Harvested straw may be used for bedding and/or feed.

Field Corn

Do not graze or feed forage or grain from treated field corn to livestock within 30 days of application.

CROP ROTATION

Soybeans, field corn, grain sorghum, rice, safflower, wheat, barley, oats, and triticale may be planted anytime after the application of HARMONY® SG. Cotton may be planted 7 days after application. Any other crop may be planted 45 days after the application of HARMONY® SG.

PRODUCT APPLICATION INFORMATION

PRODUCT MEASUREMENT

HARMONY® SG is measured using the HARMONY® SG volumetric measuring cylinder. The degree of accuracy of this cylinder varies by $\pm 7.5\%$. For more precise measurement, use scales calibrated in ounces.

SPRAY ADJUVANTS

Include a spray adjuvant with applications of HARMONY® SG. An ammonium nitrogen fertilizer may also be used. Do not use low rates of liquid nitrogen fertilizer solution as a substitute for surfactant. Antifoaming agents may be used if needed.

Consult your Ag dealer or applicator, local FMC fact sheets and technical bulletins prior to using an adjuvant system. If another herbicide is tank mixed with HARMONY® SG, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients (40 CFR 1001).

Nonionic Surfactant (NIS)

- Apply 0.06 to 0.50% volume/volume (1/2 pt to 4 pt per 100 gal of spray solution). For soybeans, apply 1 to 2 pints per 100 gallons of spray solution (use 1 pt under hot, humid conditions to reduce the potential for temporary crop injury).
- Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12.

Crop Oil Concentrate (COC) - Petroleum or Modified Seed Oil (MSO)

- Apply at 1% v/v (1 gal per 100 gal spray solution) or 2% under arid conditions. MSO adjuvants may be used at 0.5% v/v if specified on local FMC product literature or service policies. For soybeans, apply 1/2 gallon per 100 gallons of spray solution (0.5% v/v).
- Oil adjuvants must contain at least 80% high quality, petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.

Special Adjuvant Types

- Combination adjuvant products may be used at doses that provide the required amount of NIS, COC, MSO and/or ammonium nitrogen fertilizer. Consult product literature for use rates and restrictions.
- In addition to the adjuvants specified above, other adjuvant types may be used if they provide the same functionality and have been evaluated and approved by FMC product management. Consult separate FMC technical bulletins for detailed information before using adjuvant types not specified on this label.

Ammonium Nitrogen Fertilizer

- Use 2-4 qt/acre of a high-quality urea ammonium nitrate (UAN), such as 28%N or 32%N, or 2-4 lb/acre of a spray-grade ammonium sulfate (AMS). Use 4 qt/acre UAN or 4 lb/acre AMS under arid conditions.

MIXING INSTRUCTIONS

Do not use with spray additives that alter the pH of the spray solution below pH 5.0 or above pH 9.0, as rapid product degradation can occur. Spray solutions of pH 6.0 - 8.0 allow for optimum stability of HARMONY® SG.

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of HARMONY® SG.
3. Continue agitation until the HARMONY® SG is fully dispersed, at least 5 minutes.
4. Once the HARMONY® SG is fully dissolved, maintain agitation and continue filling tank with water. HARMONY® SG should be thoroughly mixed with water before adding any other material.
5. As the tank is filling, add tank mix partners (if desired) then add the required volume of spray adjuvant. Always add spray adjuvant last. Antifoaming agents may be used. Do not use with spray additives that alter the pH of the spray solution below pH 6.0 as rapid product degradation can occur. Spray solutions of pH 7.0 and higher allow for optimum stability of HARMONY® SG.
6. If the mixture is not continuously agitated, settling will occur before product is fully dissolved. If settling occurs, thoroughly re-agitate before using and make sure product is completely dissolved.
7. Apply HARMONY® SG spray mixture within 24 hours of mixing to avoid product degradation.
8. If HARMONY® SG and a tank mix partner are to be applied in multiple loads, predissolve the HARMONY® SG in clean

water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the HARMONY® SG.

APPLICATION METHOD

Ground Application

For best performance, select nozzles and pressure that deliver MEDIUM spray. Nozzles that deliver COARSE spray droplets may be used to reduce drift, provided spray volume is increased to maintain coverage on small weeds. For optimal product performance and minimal spray drift, adjust the spray boom to the lowest possible spray height recommended in manufacturers' specifications.

Overlaps or starting, stopping, slowing, and turning while spraying may result in crop injury.

Corn and Soybeans

Broadcast Application:

- Use 10-25 gallons of water per acre.
- Under heavy weed pressure or dense crop foliage, increase minimum spray volume to 15-25 gal per acre.
- Ensure that equipment is set up to avoid applying an excessive rate directly over the rows and into the corn plant whorl.

Band Application:

- For band applications, use proportionately less spray mixture.
- To avoid crop injury, carefully calibrate the band applicator to not exceed the labeled rate.
- Carefully follow the manufacturer's instructions for nozzle type (flat fans), orientation, distance of nozzles from the crop and weeds, spray volumes, calibration and spray pressure.

Cereals and Burndown

For flat-fan nozzles, use a spray volume of at least 5 gal per acre (GPA).

For flood nozzles on 30" spacings, use at least 10 GPA, flood nozzles no larger than TK10 (or the equivalent), and a pressure of at least 30 psi. For 40" nozzle spacings, use at least 13 GPA; for 60" spacings use at least 20 GPA. It is essential to overlap the nozzles 100% for all spacings.

"Raindrop RA" nozzles are not recommended for HARMONY® SG applications, as weed control performance may be reduced.

Use screens that are 50-mesh or larger.

Aerial Application

This product is limited to ground application only in the State of New York. Do not apply by air in that state.

Do not apply during a temperature inversion, when winds are gusty, or when conditions favor poor coverage and/or off-target spray movement.

In cereals and burndown use 2 to 5 gallons per acre; use at least 3 gallons per acre in Idaho, Oregon and Utah. In corn and soybeans, use a minimum of 5 gallons per acre.

When applying HARMONY® SG by air in areas adjacent to sensitive crops, use solid stream nozzles oriented straight back. Adjust the swath to avoid spray drift damage to sensitive crops downwind and/or use ground equipment to treat the border edge of fields. See the "SPRAY DRIFT MANAGEMENT" section of this label.

SPRAY EQUIPMENT

For specific application equipment, refer to the manufacturer's instructions for additional information on GPA, pressure, speed, nozzle types and arrangements, nozzle heights above the target canopy, etc.

Be sure to calibrate air or ground equipment properly before application. Select a spray volume and delivery system that will ensure thorough coverage and a uniform spray pattern with minimum drift. Use higher spray volumes to obtain better coverage when crop canopy is dense. Avoid swath overlapping, and shut off spray booms while starting, turning, slowing, or stopping, to avoid injury to the crop. Do not make applications using equipment and/or spray volumes or during weather conditions that might cause spray to drift onto nontarget sites. For additional information on spray drift refer to the "SPRAY DRIFT MANAGEMENT" section of this label.

Continuous agitation may be required to keep tank-mix partners in solution or suspension. Refer to tank-mix partner labels for additional information.

Before Spraying HARMONY® SG

The spray equipment must be cleaned before HARMONY® SG is sprayed. Follow the cleanup procedures specified on the labels of the previously applied products. If no directions are provided, follow the six steps outlined in the "AFTER SPRAYING HARMONY® SG" section of this label.

At the End Of the Day

It is recommended that during periods when multiple loads of HARMONY® SG are applied, at the end of each day of spraying the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits, which can accumulate in the application equipment.

After Spraying HARMONY® SG and Before Spraying Crops Other than Wheat, Barley, Oats, Triticale, Field Corn and Soybeans

1. Empty the tank and drain the sump completely.
 2. Spray the tank walls with clean water using a minimum volume of 10% of the tank volume. Circulate the water through the lines, including all by-pass lines, for at least two minutes. Flush the boom well and empty the sprayer. Completely drain the sump.
 3. Repeat step 2.
 4. Remove the nozzles and screens and clean separately in a bucket containing water.
- The rinsate solution may be applied to the crop(s) specified on this label. Do not exceed the maximum-labeled use rate. If cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waster disposal facility.

Notes:

1. Always start with a clean spray tank.
2. Steam-cleaning aerial spray tanks is recommended to facilitate the removal of any caked deposits.
3. When HARMONY® SG is tank mixed with other pesticides, all cleanout procedures for each product should be examined and the most rigorous procedure should be followed.
4. In addition to this cleanout procedure, all pre-cleanout guidelines on subsequently applied products should be followed as per the individual labels.

SPRAY DRIFT

Ground Boom Applications:

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy unless making a turf, pasture, or rangeland application, in which case applicators may apply with a nozzle height no more than 4 feet above the ground.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

Boom-less Ground Applications:

- Applicators are required to use a Medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.”

Aerial Applications:

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use one-half swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT MANAGEMENT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

Boom-less Ground Applications:

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications:

- Take precautions to minimize spray drift.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

- Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift. When applying aurally to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

SENSITIVE AREAS

The pesticide may only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

DRIFT CONTROL ADDITIVES

Using product compatible drift control additives can reduce drift potential. When a drift control additive is used, read and carefully observe cautionary statements and all other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution. Preferred drift control additives have been certified by the Chemical Producers and Distributors Association (CPDA).

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store product in original container only. Store in a cool, dry place.

Pesticide Disposal: Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 50 Pounds): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 50 Pounds): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners: Nonrefillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

Refillable Fiber Drums With Liners: Refillable container (fiber drum only). Refilling Fiber Drum: Refill this fiber drum with HARMONY® SG herbicide (with TotalSol® soluble granules) containing thifensulfuron methyl only. Do not reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Disposing of Fiber Drum and/or Liner: Do not reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fiber drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the fiber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

All Other Refillable Containers: Refillable container. Refilling Container: Refill this container with HARMONY® SG herbicide (with TotalSol® soluble granules) containing thifensulfuron methyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use the container, contact FMC at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact FMC at the number below for instructions. Disposing of Container: Do

not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Outer Foil Pouches of Water Soluble Packets (WSP): Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. If the outer pouch contacts the formulated product in any way, the pouch must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer pouch as described previously.

Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact CHEMTREC (Transportation and Spills) at 1-800-424-9300, day or night.

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